



SEQUENCE LISTING

<110> Chakravarti, Shukti
Case Western Reserve University

<120> Gene Expression Profiling of Inflammatory Bowel Disease

<130> 021825-004710US

<140> US 09/694,758
<141> 2000-10-23

<150> US 60/160,835
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<170> PatentIn Ver. 2.1

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<223> monocyte-derived neutrophil chemotactic factor
(MDNCF); interleukin 8 (IL-8) precursor; small
inducible cytokine, subfamily B, member 8 (SCYB8);
chemokine (C-X-C motif) ligand 8 (CXCL8)

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 chemokine (C-X-C motif) ligand 2 (CXCL2)

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(MDNCF); interleukin 8 (IL-8) precursor; small
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chemokine (C-X-C motif) ligand 8 (CXCL8)

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protein ACT-2 precursor; secreted protein G-26

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<212> DNA
<213> Homo sapiens

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chemokine (C-C motif) ligand 4 (CCL4); activation
protein ACT-2 precursor; secreted protein G-26

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interleukin-1 beta precursor; catabolin

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<213> Homo sapiens

<220>

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<210> 11
 <211> 1098
 <212> DNA
 <213> Homo sapiens

<220>
 <223> interleukin-6 (IL-6) precursor; B-cell stimulatory factor 2 (BSF-2); hybridoma growth factor; CTL differentiation factor (CDF); interferon beta 2 (IFNB2)

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<210> 12
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 <212> DNA
 <213> Homo sapiens

<220>
 <223> growth hormone variant (GH1) and growth hormone variant 2 (GH2); hGH-V, hGH-V2

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<210> 13

<211> 2376

<212> DNA

<213> Homo sapiens

<220>

<223> hepatoma-derived growth factor (HDGF);
high-mobility group protein 1-like 2 (HMG-1L2)

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<210> 14
 <211> 534
 <212> DNA
 <213> Homo sapiens

<220>
 <223> neutrophil lipocalin (HNL); lipocalin 2 (LCN2);
 human neutrophil gelatinase-associated lipocalin
 (Hngal, NGAL); oncogene 24p3; 25 kDa
 alpha-2-microglobulin-related subunit of MMP-9

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<210> 15
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 <212> DNA
 <213> Homo sapiens

<220>
 <223> neutrophil lipocalin (HNL); lipocalin 2 (LCN2);
 human neutrophil gelatinase-associated lipocalin
 (Hngal, NGAL); oncogene 24p3; 25 kDa
 alpha-2-microglobulin-related subunit of MMP-9

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<210> 16
<211> 634
<212> DNA
<213> Homo sapiens

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<220>
<223> nitric oxide synthase (NOS2); inducible nitric
oxide synthase (INOS)

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<210> 17
<211> 6004
<212> DNA
<213> Homo sapiens

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<220>
<223> mitochondrial superoxide dismutase (SOD2);
manganese-containing superoxide dismutase
(mangano-superoxide dismutase, MnSOD);
indophenoloxidase B (IPO-B)

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<222> (1)..(6004)
<223> n = g, a, c or t

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<210> 18

<211> 854

<212> DNA

<213> Homo sapiens

<220>

<223> phospholipase A2, group IIA (PLA2G2A); rheumatoid
arthritic synovial fluid phospholipase A2 (RASFA-
PLA2); phosphatidylcholine 2-acylhydrolase;
non-pancreatic secretory phospholipase A2 (NPS-PLA2)

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<210> 19
 <211> 269
 <212> DNA
 <213> Homo sapiens

<220>
 <223> serum amyloid A (SAA, SAA1); tumor protein p53
 inducible protein 4 (TP53I4, PIG4)

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<210> 20
 <211> 3460
 <212> DNA
 <213> Homo sapiens

<220>
 <223> serum amyloid A (SAA, SAA1); tumor protein p53
 inducible protein 4 (TP53I4, PIG4)

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 <211> 748
 <212> DNA
 <213> Homo sapiens

<220>
 <223> lysozyme (LYZ, LZM) precursor

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<210> 22
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 <212> DNA
 <213> Homo sapiens

<220>

<223> cytochrome P-450, family 3, subfamily A, polypeptide 7
(CYP3A7); cytochrome P-450 HFLa; aryl hydrocarbon hydroxylase;
microsomal monooxygenase; flavoprotein-linked monooxygenase;
xenobiotic monooxygenase

<400> 22

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<210> 23

<211> 1653

<212> DNA

<213> Homo sapiens

<220>

<223> antioxidant protein 2 (AOP2); peroxiredoxin 6
(PRDX6); 1-Cys periredoxin (1-Cys PRX);
non-selenium glutathione peroxidase (NSGPx);
KIAA0106

<400> 23

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 <213> Homo sapiens

<220>
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 <212> DNA
 <213> Homo sapiens

<220>
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 precursor; secretory pancreatic stone protein 2;
 pancreatic thread protein (PTP)

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 precursor; secretory pancreatic stone protein (PSP, PSPS);
 pancreatic thread protein (PTP)

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<210> 28
 <211> 4497
 <212> DNA
 <213> Homo sapiens

<220>

<223> pancreatitis-associated protein 1 (PAP, PAP1) precursor;
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 Reg III-alpha) precursor; hepatocarcinoma-intestine-pancreas
 (HIP); proliferation-inducing protein 34 (PIG34)

<400> 28

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<211> 219

<212> DNA

<213> Homo sapiens

<220>

<223> zinc finger protein 436 (ZNF436), DNA-binding protein; KIAA1710

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<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

<220>
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 calgranulin B (CAGB); migration inhibitory
 factor-related protein 14 (MRP-14)

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 <223> lymphocyte G0/G1 switch regulatory protein 2
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<210> 34

<211> 439

<212> DNA

<213> Homo sapiens

<220>

<223> S100 calcium-binding protein P (S100P);
migration-inducing gene 9

<400> 34

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<210> 35
 <211> 565
 <212> DNA
 <213> Homo sapiens

<220>

<223> annexin V, annexin 5, annexin A5 (ANX5, ANXA5); lipocortin V;
 endonexin II; anchorin CII; placental anticoagulant protein I
 (PAP-I); vascular anticoagulant-alpha (VAC-alpha);
 calphobindin; anticoagulant protein 4

<400> 35

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<210> 36
 <211> 3678
 <212> DNA
 <213> Homo sapiens

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<223> hypoxia-inducible factor 1 alpha (HIF1A, HIF-1
 alpha); basic-helix-loop-helix-PAS protein MOP1;
 ARNT interacting protein

<400> 36

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<210> 38
 <211> 774
 <212> DNA
 <213> Homo sapiens

<220>
 <223> suppressor of mif two 3 homolog 2 (SMT3H2, HSMT3)
 precursor; MIF2 suppressor; small
 ubiquitin-related modifier 2 (SUMO2); sentrin 2

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<210> 39
 <211> 2841
 <212> DNA
 <213> Homo sapiens

<220>
 <223> SWI/SNF related, matrix-associated, actin dependent regulator
 of chromatin, subfamily d, member 1 (SMARCD1); SWI/SNF complex
 60 kDa subunit A; chromatin remodeling complex BRG-1/Brm
 associated factor 60A (BAF60A); Swp73-like protein

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 <213> Homo sapiens

<220>
 <223> NF-kappa-B transcription factor p65 subunit
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<210> 41
 <211> 1301
 <212> DNA
 <213> Homo sapiens

<220>
 <223> basic transcription element binding protein 2;
 transcription factor BTEB2; krueppel-like factor 5
 (intestinal) (KLF5, IKLF); similar to colon
 Krueppel-like factor (CKLF); GC-box binding protein

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<210> 42

<211> 2346

<212> DNA

<213> Homo sapiens

<220>

<223> guanine nucleotide-binding protein alpha subunit
(GNAS1, Gs alpha); secretogranin VI

<400> 42

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<210> 43
 <211> 41936
 <212> DNA
 <213> Homo sapiens

<220>
 <223> liver-specific bHLH-Zip transcription factor;
 B6CBA LISCH7 homolog; lipolysis-stimulated
 lipoprotein receptor; chromosome 19-cosmid R30879

<400> 43					
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<210> 45
 <211> 3839
 <212> DNA
 <213> Homo sapiens

<220>
 <223> zinc finger protein 91 (ZNF91); Krueppel related
 zinc finger protein; HTF10; HPF7

<400> 45						
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<210> 46

<211> 1381

<212> DNA

<213> Homo sapiens

<220>

<223> general transcription factor IIIA (GTF3A)

<400> 46

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aggcgccggc	gccctggatc	cgccggccgt	ggtcgcccag	tcggtgtcgt	ccttgaccat	240
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g						1381

<210> 47
 <211> 952
 <212> DNA
 <213> Homo sapiens

<220>
 <223> sorcin CP-22 (SRI); calcium binding protein
 amplified in multidrug-resistant cells

<400> 47						
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<210> 48
 <211> 1360
 <212> DNA
 <213> Homo sapiens

<220>
 <223> creatine kinase, brain, creatine kinase-B (CKB,
 B-CK, CKBB)

<400> 48						
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<210> 49
 <211> 927
 <212> DNA
 <213> Homo sapiens

<220>
 <223> epithelial protein up-regulated in carcinoma
 (DD96); membrane associated protein 17 (MAP17);
 PDZK1 interacting protein 1 (PDZK1IP1)

<400> 49						
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<210> 50
 <211> 595
 <212> DNA
 <213> Homo sapiens

<220>
 <223> calgizzarin; S100 calcium binding protein A11
 (S100A11); protein S100C; MLN 70

<400> 50						
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<210> 51
<211> 1433
<212> DNA
<213> Homo sapiens

<220>
<223> down-regulated in rhabdomyosarcoma LIM protein
(DRAL); four and a half LIM domains protein 2
(FHL-2); skeletal muscle LIM-protein 3 (SLIM 3);
aging associated gene 11 (AAG11)

<400> 51
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<210> 52
<211> 2416
<212> DNA
<213> Homo sapiens

<220>
<223> MAX interacting protein 1 (MXI1); MAX interactor 1
tumor suppressor; Max-related transcription
factor; MAX dimerization protein 2

<400> 52
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<210> 53

<211> 2881

<212> DNA

<213> Homo sapiens

<220>

<223> colon mucosa-associated down-regulated in adenoma

(DRA); solute carrier family 26, member 3

(SLC26A3); chloride anion exchanger; congenital

chloride diarrhea

<400> 53

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<210> 54

<211> 1104

<212> DNA

<213> Homo sapiens

<220>

<223> MHC class II HLA-DP light chain

<400> 54

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<210> 55
<211> 282
<212> DNA
<213> Homo sapiens

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<220>
<223> MHC class II HLA-DR beta 1 chain precursor
      (HLA-DRB4)

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<210> 56
<211> 213
<212> DNA
<213> Homo sapiens

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<220>
<223> MHC HLA class II DG; HLA-DR gamma chain; CD74
      antigen

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<210> 57
<211> 1191
<212> DNA
<213> Homo sapiens

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```

<220>
<223> MHC HLA class II DR beta-1 chain (HLA-DRB1)

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<210> 58

<211> 5724

<212> DNA

<213> Homo sapiens

<220>

<223> MHC HLA class II DR alpha heavy chain (HLA-DRA)

<400> 58

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<210> 59

<211> 1100

<212> DNA

<213> Homo sapiens

<220>

<223> MHC HLA class II DM alpha chain-like (HLA-DMA);
RING6

<400> 59

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<210> 60

<211> 1763

<212> DNA

<213> Homo sapiens

<220>

<223> MHC HLA class II DR2-Dw12 DQw1-beta chain
(HLA-DRB2; HLA-Dw12)

<400> 60

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<210> 61
 <211> 1216
 <212> DNA
 <213> Homo sapiens

<220>
 <223> MHC HLA class II DQw1.1 beta chain (HLA-DQB1)
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<400> 61						
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<210> 62
 <211> 915
 <212> DNA
 <213> Homo sapiens

<220>
 <223> rearranged immunoglobulin lambda light chain (Ig
 lambda)

<400> 62						
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<210> 63
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <223> immunoglobulin heavy chain (IgH), VDJRC region

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<210> 64
 <211> 382
 <212> DNA
 <213> Homo sapiens

<220>
 <223> immunoglobulin lambda-like protein (IGLL2)

<400> 64						
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<210> 65
 <211> 1244
 <212> DNA
 <213> Homo sapiens

<220>
 <223> immunoglobulin rearranged gamma chain, V-J-C region

<400> 65						
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<210> 66
 <211> 454
 <212> DNA
 <213> Homo sapiens

<220>
 <223> immunoglobulin rearranged kappa light chain,
 variable region

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<210> 67
 <211> 676
 <212> DNA
 <213> Homo sapiens

<220>
 <223> MHC HLA class II Ia-associated invariant gamma
 chain; CD74 antigen

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<210> 68
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <223> omega light chain protein 14.1, immunoglobulin
 lambda chain-like

<400> 68
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<210> 69
 <211> 2919
 <212> DNA
 <213> Homo sapiens

<220>
 <223> polymeric immunoglobulin receptor (poly-Ig
 receptor, PIGR) precursor; hepatocellular
 carcinoma-associated protein TB6; transmembrane
 secretory component (SC)

<400> 69
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<210> 70
 <211> 1799
 <212> DNA
 <213> Homo sapiens

<220>
 <223> immunoglobulin alpha heavy chain allotype 2
 constant region; IgA2 H chain C region (IGHA2)

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<211> 1151
<212> DNA
<213> Homo sapiens

<220>
<223> T-cell specific protein; T-cell receptor
beta-chain

<400> 71
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<210> 72
<211> 1032
<212> DNA
<213> Homo sapiens

<220>
<223> gamma-interferon-inducible protein precursor
(IP30); contains gamma-interferon inducible
lysosomal thiol reductase (GILT)

<400> 72
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<210> 73
 <211> 2709
 <212> DNA
 <213> Homo sapiens

<220>
 <223> interferon-gamma induced protein 16 (IFI16);
 interferon-inducible myeloid differentiation
 transcriptional activator

<400> 73

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<210> 74
<211> 483
<212> DNA
<213> Homo sapiens

<220>
<223> hepatitis C-associated microtubular aggregate
protein p44

<400> 74
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ttt 483

<210> 75
<211> 634
<212> DNA
<213> Homo sapiens

<220>
<223> interferon-stimulated protein 15 kDa (ISG15); ISG15
ubiquitin-like modifier; ubiquitin cross-reactive protein
(UCRP) precursor; interferon alpha-inducible protein
(IFI-15K); interferon-induced 17 kDa protein precursor

<400> 75
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<210> 76
<211> 1451
<212> DNA
<213> Homo sapiens

<220>
<223> interleukin 2 receptor gamma subunit chain (IL2RG,
hIL-2Rg) precursor; cytokine receptor common gamma
chain (gamma-C) precursor; CD132 antigen; p64

<400> 76
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tgataatcat c 1451

<210> 77
<211> 1071
<212> DNA
<213> Homo sapiens

<220>
<223> complement factor D (DF) precursor; adipsin; C3
convertase activator; properdin factor D

<400> 77
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<220>
 <223> CD9 antigen; leukocyte antigen MIC3;
 motility-related protein-1 (MRP-1); tetraspanin-29
 (Tspan-29)

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 <213> Homo sapiens

<220>
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 (DEFA5); paneth cell-specific alpha-defensin 5

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 <223> defensin 6 (DEF6, HD-6) preproprotein; defensin
 alpha 6 (DEFA6) precursor; paneth cell-specific
 alpha-defensin 6

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<210> 81

<211> 1778

<212> DNA

<213> Homo sapiens

<220>

<223> matrix metalloproteinase 12 (MMP-12)
preproprotein; macrophage metalloelastase (HME)
precursor; macrophage elastase (ME)

<400> 81

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<210> 82

<211> 2334

<212> DNA

<213> Homo sapiens

<220>

<223> matrix metalloproteinase 9 (MMP-9); gelatinase B
(GELB) precursor; macrophage gelatinase; 92K
gelatinase; type IV collagenase (CLG4A)

<400> 82

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<211> 1970

<212> DNA

<213> Homo sapiens

<220>

<223> matrix metalloproteinase 1 (MMP-1) preproprotein;
type I interstitial collagenase; fibroblast
collagenase; tissue collagenase

<400> 83

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<211> 1801

<212> DNA

<213> Homo sapiens

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proteoglycanase; progelatinase; transin-1

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<211> 2309

<212> DNA

<213> Homo sapiens

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anti-leukoproteinase; whey acidic protein (WAP) four-disulfide
core domain protein 14; protease inhibitor WAP3

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 <212> DNA
 <213> Homo sapiens

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 <223> collagen, type I, alpha2; collagen alpha 2(I)
 chain precursor; prepro-alpha2(I) collagen
 (COL1A2)

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<211> 10558

<212> DNA

<213> Homo sapiens

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(COL6A3)

<400> 87

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<210> 89
 <211> 2520
 <212> DNA
 <213> Homo sapiens

<220>
 <223> collagen, type III, alpha 1 preproprotein;
 collagen alpha 1 type III; pro-alpha1(III)
 collagen (COL3A1); Ehlers-Danios syndrome type IV;
 fetal collagen

<400> 89						
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<210> 90
 <211> 1585
 <212> DNA
 <213> Homo sapiens

<220>
 <223> collagen alpha-2(VI) chain precursor; collagen VI
 alpha-2; alpha-2 type VI collagen; type VI
 collagen alpha 2 chain precursor (COL6A2)

<400> 90
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<210> 91
 <211> 2212
 <212> DNA
 <213> Homo sapiens

<220>
 <223> collagen alpha-2(IV) chain precursor; alpha-2 type
 IV collagen; type IV collagen alpha (2) chain;
 (COL4A2); procollagen; basement membrane collagen

<400> 91
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<210> 92

<211> 1830

<212> DNA

<213> Homo sapiens

<220>

<223> mucin 4; tracheo-bronchial mucin (MUC4)

<400> 92

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<210> 93
 <211> 490
 <212> DNA
 <213> Homo sapiens

<220>
 <223> trefoil factor 1 (TFF1) precursor; gastrointestinal trefoil protein pS2; pS2 protein precursor; protein NR-2/pS2; estrogen-regulated protein pNR-2; breast cancer estrogen inducible sequence (BCE1, BCE I); HP1.A

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<210> 94
 <211> 229
 <212> DNA
 <213> Homo sapiens

<220>
 <223> intestinal mucin

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<400> 94
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caaccccaac acccaccggc acacagaccc caagatcgac acccatcac 229

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<210> 95
 <211> 2133
 <212> DNA
 <213> Homo sapiens

<220>
 <223> osteonectin precursor; secreted protein, acidic, cysteine rich (SPARC); basement-membrane protein 40 (BM-40); extracellular matrix protein BM-40

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<210> 96
 <211> 1182
 <212> DNA
 <213> Homo sapiens

<220>
 <223> proteoglycan 1 (PRG1); hematopoietic proteoglycan core protein;
 secretory granule proteoglycan core protein precursor;
 serglycin (SRGN) precursor; proteoglycan secretory granule 1;
 HL-60 cell proteoglycan peptide core; platelet proteoglycan

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<211> 1806

<212> DNA

<213> Homo sapiens

<220>

<223> peripheral myelin protein 22 (PMP22); growth
arrest-specific 3 (GAS-3); SR13 protein;
PAS-II/SR13/Gas-3

<400> 97

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<212> DNA

<213> Homo sapiens

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migration-stimulating factor

<400> 98

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 <213> Homo sapiens

<220>
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 (RGD-CAP); ig-h3, beta ig.h3

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 <213> Homo sapiens

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 (fasciclin-I-like); periostin (PN, POSTN);
 periodontal ligament-specific periostin

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<211> 6360

<212> DNA

<213> Homo sapiens

<220>

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coagulation factor VIII (F8VWF)

<400> 101

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<211> 9551

<212> DNA

<213> Homo sapiens

<220>

<223> trichohyalin (THH, TRHY, THL, TCHH)

<400> 102

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 GS2374

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cytoskeletal (KRT20, K20); keratin, type I
cytoskeletal 20; protein IT

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 aldolase; fructose-1,6-bisphosphate
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<210> 110
<211> 1062
<212> DNA
<213> Homo sapiens

<220>
<223> glucagon (GCG) preproprotein; enteroglucagon;
glicentin-related polypeptide (GRPP);
oxyntomodulin (OXY, OXM)

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<210> 111
<211> 2578
<212> DNA
<213> Homo sapiens

<220>
<223> monocarboxylate transporter 1 (MCT1); solute
carrier, family 16, member 1 (SLC16A1)

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<210> 112

<211> 4122

<212> DNA

<213> Homo sapiens

<220>

<223> 2-oxoglutarate dehydrogenase (OGDH) precursor; 2-oxoglutarate dehydrogenase E1 component, mitochondrial precursor; alpha-ketoglutarate dehydrogenase; oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide)

<400> 112

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<210> 113
 <211> 1450
 <212> DNA
 <213> Homo sapiens

<220>
 <223> alcohol dehydrogenase 1A (ADH1A, ADH1); class I
 alcohol dehydrogenase alpha subunit (aADH);
 aldehyde reductase

<400> 113

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<210> 114

<211> 1523

<212> DNA

<213> Homo sapiens

<220>

<223> carbonic anhydrase II (CA2, CA II); carbonic
anhydrase B; carbonic dehydratase; carbonate
dehydratase II

<400> 114

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<210> 115
 <211> 655
 <212> DNA
 <213> Homo sapiens

<220>
 <223> carbonic anhydrase IV (CA4, CA-IV) precursor;
 carbonic dehydratase; carbonate dehydratase IV;
 retinitis pigmentosa 17 (autosomal dominant)

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<210> 116
 <211> 2657
 <212> DNA
 <213> Homo sapiens

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 <223> phosphoenolpyruvate carboxykinase 1, soluble
 (PCK1, PEPCK)

<400> 116												
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<211> 1248

<212> DNA

<213> Homo sapiens

<220>

<223> syntaxin 4A (STX4A, STX4) precursor; syntaxin
(placental)

<400> 117

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 <211> 2010
 <212> DNA
 <213> Homo sapiens

<220>

<223> chaperonin subunit 6A (CCT6A); chaperonin containing T-complex protein 1 (TCP1), subunit 6A; chaperonin containing TCP1, zeta 1 (CCT-zeta-1); histidine transport regulator 3 (HTR3); acute morphine dependence related protein 2; TRiC chaperonin subunit

<400> 118

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 <211> 2422
 <212> DNA
 <213> Homo sapiens

<220>

<223> UDP-glycosyltransferase 1 (UGT1);
 UDP-glycosyltransferase 1 family, polypeptide A6
 (UGT1A6); phenol UDP-glucuronosyltransferase
 (UDPGT); phenol transferase UGT1F; GNT1

<400> 119

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<211> 8447

<212> DNA

<213> Homo sapiens

<220>

<223> sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 (SULT1A3, ST1A3); thermolabile phenol sulfotransferase (STM); catecholamine-sulfating phenol sulfotransferase; placental estrogen sulfotransferase (EST); aryl sulfotransferase

<400> 120

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<210> 121
 <211> 2191
 <212> DNA
 <213> Homo sapiens

<220>
 <223> beta-glucuronidase (GUSB) precursor;
 glucuronidase-beta; beta-D-glucuronoside
 glucuronosohydrolase; glucuronohydrolase; beta-G1

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<210> 122
 <211> 2090
 <212> DNA
 <213> Homo sapiens

<220>
 <223> UDP-glucuronosyltransferase 2 family, protein B15 (UGT2B15,
 UDPGT) precursor; UDP-glucuronosyltransferase 2B8 (UGT2B8)
 precursor, microsomal (estriol-specific); dihydrotestosterone/
 androstanediol UDP-glucuronosyltransferase isoform 3 (UDPGTh-3)

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<210> 123
 <211> 1137
 <212> DNA
 <213> Homo sapiens

<220>

<223> thiosulfate sulfurtransferase (TST);
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cyanide transsulfurase; thiosulfate
thiotransferase; rhodanese

<400> 123

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<210> 124

<211> 3494

<212> DNA

<213> Homo sapiens

<220>

<223> aminopeptidase N (ANPEP, PEPN, APN) precursor; membrane alanine
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microsomal aminopeptidase; aminopeptidase M; CD13 antigen;
p150; IGF1R

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 <212> DNA
 <213> Homo sapiens

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 PPR) precursor; beta-galactosidase 2;
 carboxypeptidase C precursor; lysosomal protective
 protein; cathepsin A precursor

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<210> 126
 <211> 584
 <212> DNA
 <213> Homo sapiens

<220>
 <223> fatty acid binding protein 6 (FABP6); gastropin
 (GT) isoform 1; ileal lipid-binding protein (ILBP,
 Illbp); ileal bile acid binding protein (I-BABP);
 intestinal 15 kDa protein (I-15P)

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<210> 127
 <211> 634
 <212> DNA
 <213> Homo sapiens

<220>
 <223> fatty acid binding protein 4, adipocyte (FABP4);
 adipocyte lipid-binding protein (ALBP); aP2, p15

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<210> 128

<211> 489

<212> DNA

<213> Homo sapiens

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<223> fatty acid binding protein 1, liver (FABP1, FABP2,
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protein; sterol carrier protein

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<210> 129

<211> 882

<212> DNA

<213> Homo sapiens

<220>

<223> delta3, delta2-CoA-isomerase (DCI);
delta(3)-delta(2)-enoyl-CoA isomerase;
dodecenoyl-CoA delta-isomerase precursor,
mitochondrial; 3,2-trans-enoyl-CoA isomerase

<400> 129

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<210> 130
 <211> 1584
 <212> DNA
 <213> Homo sapiens

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 <223> acetyl-CoA acyltransferase 2 (ACAA2);
 mitochondrial 3-oxoacyl-CoA thiolase;
 3-ketoacyl-CoA thiolase, mitochondrial;
 beta-ketothiolase; T1

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<210> 131
 <211> 9127
 <212> DNA
 <213> Homo sapiens

<220>
 <223> 3-beta hydroxysteroid dehydrogenase type II (HSD3B2);
 5delta-4delta isomerase; 3-beta isomerase 2; hydroxy-delta-5
 steroid dehydrogenase; steroid delta-isomerase 2; 3beta-hydroxy
 delta5-steroid dehydrogenase multifunctional protein II

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 precursor; T2

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 dehydrogenase (SCAD) precursor

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<210> 134
 <211> 1344
 <212> DNA
 <213> Homo sapiens

<220>
 <223> hydroxysteroid (17-beta) dehydrogenase 2 (HSD17B2); 17 beta
 hydroxysteroid dehydrogenase type 2 (17b-HSD); 17beta-estradiol
 dehydrogenase; estradiol 17beta dehydrogenase type 2;
 20alpha-hydroxysteroid dehydrogenase

<400> 134						
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<210> 135

<211> 1897

<212> DNA

<213> Homo sapiens

<220>

<223> 11-beta-hydroxysteroid dehydrogenase type II
(HSD11B2, 11-beta-HSD2, 11-DH2); corticosteroid
11-beta-dehydrogenase, isozyme 2; NAD-dependent
11-beta-hydroxysteroid dehydrogenase

<400> 135

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attagggccc caactacaca cccccaagcc acaggggaagc atgtactgta cttcccaatt 1860
gccacatttt aaataaagac aaatttttat ttctttct 1897

<210> 136
<211> 511
<212> DNA
<213> Homo sapiens

<220>
<223> MAT8 protein; FXYD domain containing ion transport
regulator 3 (FXYD3) precursor; chloride
conductance inducer Mat-8; phospholemmman-like
protein

<220>
<221> modified_base
<222> (511)
<223> n = g, a, c or t

<400> 136
cccgatttct cccggaacct ctgctcagcc tgggtgaacca cacaggccag cgctctgaca 60
tgcagaaggt gaccttgggc ctgcttgtgt tcctggcagg ctttcctgtc ctggacgcca 120
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<210> 137
<211> 571
<212> DNA
<213> Homo sapiens

<220>
<223> guanylate cyclase activator 2A (GUCA2A); guanylate
cyclase activating protein 1 (Gap-I); guanylin 2,
intestinal, heat-stable; guanylin precursor;
proguanylin

<400> 137
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ccacccatga tactccactc ccagcagctc aacctaccct ggtccagtcg ggaggagcag 480
cccggggagg aactgggtga ctggaggcct cgccccaaca ctgtccttcc ctgccacttc 540
aacccccagc taataaacca gattccagag t 571

<210> 138
<211> 755
<212> DNA
<213> Homo sapiens

<220>
 <223> 6-pyruvoyl-tetrahydropterin synthase (PTPS, PTS);
 PTP synthase

<400> 138
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 aactgttttg gaaatgcaac aatccaaatg gccatgggca caattataaa gttgtggtga 240
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 tcttttattt ataaatttaa aatcacttca ttttc 755

<210> 139
 <211> 3727
 <212> DNA
 <213> Homo sapiens

<220>
 <223> KIAA0035; similar to rat nucleolar phosphoprotein
 of 140 kD (RATNOP140B), nucleolar and coiled body
 phosphoprotein 1 (NOLC1), nucleolar phosphoprotein
 p130; trans-regulated protein 13; HCV NS5A

<400> 139
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<210> 140

<211> 5654

<212> DNA

<213> Homo sapiens

<220>

<223> KIAA0367; BNIP2 motif containing molecule at
carboxyl terminal region (BMCC1)

<400> 140

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<210> 141
 <211> 1144
 <212> DNA
 <213> Homo sapiens

<220>
 <223> endogenous retrovirus envelope region; pseudo-env;
 PL1

```

<400> 141
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cttt 1144

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<210> 142
 <211> 494
 <212> DNA
 <213> Homo sapiens

<220>
 <223> cytochrome c oxidase subunit Vb, mitochondrial
 precursor; cytochrome c oxidase subunit 5B (COX5B)

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<400> 142
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ggaggtggtg tttccactga tgaagagcag gcgactgggt tggagagggg gatcatgctg 180
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gaagaggaca ataccagcgt cgtctggttt tggctgcaca aagggcaggc ccagcgatgc 360
ccccgctgtg gagcccatta caagctgggtg ccccagcagc tggcacactg agcacctgca 420
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tggtccttc tccc 494

```

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<210> 143
<211> 1620
<212> DNA
<213> Homo sapiens

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<220>
<223> pancreatic ribonuclease A precursor; ribonuclease,
      RNase A family, 1 (pancreatic) (RNASE1, RNS1,
      RNase A, RNase 1); ribonuclease HK-2A;
      ribonuclease, secretory; HP-RNase; RNase UPI-1;
      RIB1

```

```

<400> 143
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<210> 144
<211> 2000
<212> DNA
<213> Homo sapiens

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<220>

<223> K12 protein precursor; secreted and transmembrane protein 1 (SECTM1) precursor

<400> 144

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<210> 145

<211> 121

<212> DNA

<213> Homo sapiens

<220>

<223> clone E18 from CpG-enriched DNA

<400> 145

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a                                                     121
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